

# Systems Service Certificate

## Math, Science & Engineering Technologies Division

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[www.northweststate.edu](http://www.northweststate.edu)

*NSCC is accredited by:  
The Higher Learning Commission  
(312) 263-0456*

[www.ncahigherlearningcommission.org](http://www.ncahigherlearningcommission.org)



## Systems Service Certificate in Alternative Energy Technology

Due to rising fuel costs and the depletion of our earth's natural resources, there is an increasing interest in alternative energy technologies. Regional and national legislation is requiring a shift to alternative and renewable energy sources. The manufacturing core is shifting toward solar, biomass, wind and other alternative energy technologies. As industry shifts, a large workforce will need developed and/or retrained for new jobs; new jobs in the area of alternative energy technology.

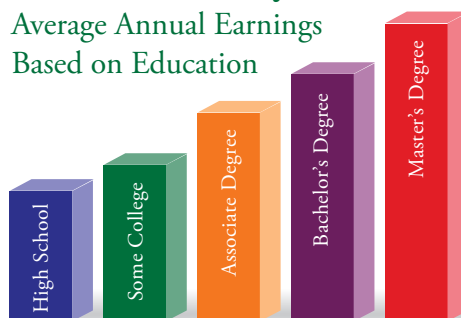
This program will prepare individuals for different technical positions in alternative energy related fields along with a path to transfer into related two-year associate degree programs.

### Career Outlook

Currently there is a large amount of research in alternative energy technology. With the innovation of this technology there will be a need for individuals who can install, service, maintain and repair these systems in machines and building structures.

### Education Pays

Average Annual Earnings  
Based on Education



2013-2014

Based on data from the Bureau of Labor Statistics

# Program Sequence

## First Semester

		Credits
+ AET100	Introduction to Alternative Energy	3
ENG111	Composition I	3
MET100	Introduction to Engineering Technologies	2
		8

## Second Semester

		Credits
+ AET110	Energy Audit	3
+ EET121	DC Circuits	3
+ MET110	Print Reading and Sketching	3
		9

## Third Semester

		Credits
+ EET122	AC Circuits	3
IND203	Applied Geometry and Trigonometry	3
+ INT120	HVAC-R I	3
		9

## Fourth Semester

		Credits
+ IND131	Industrial Pipefitting	3
PHY101	Principles of Physical Science	3
+	Alternative Energy Technology Elective	4
		10

**Total Program Credit Hours 36**

*For information about our graduation rates, the median debt of students who have completed the program, and other important information, visit [www.northweststate.edu](http://www.northweststate.edu) under Math, Science & Engineering Technologies.*

+ Students must attain a minimum grade of “C” in all courses with a ‘+’ to progress in the program and to graduate.

*Course curriculum is subject to change. Please consult with an Academic Advisor for up-to-date information.*

